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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/965,906	09/28/2001	Linda Ann Roberts	36968/264493 4246	
75	90 06/18/2003			
Christopher J Leonard			EXAMINER	
Merchant & Gould PC P O Box 2903			PATEL, JAYANTI K	
Minneapolis, MN 55402-0903			ART UNIT	PAPER NUMBER
			2625	(A)
			DATE MAILED: 06/18/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

4	Application No.	Applicant(s)				
Office Action Summary	09/965,906	ROBERTS ET AL.				
Office Action Summary	Examiner	Art Unit				
The MAILING DATE of this communication app	Jayanti K. Patel	2625				
Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	6(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) day: ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on <u>28 S</u>	eptember 2001 .					
2a) ☐ This action is FINAL . 2b) ☑ Thi	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4) Claim(s) 1-10 is/are pending in the application						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.	5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-10</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>28 September 2001</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the		• ,				
11) The proposed drawing correction filed on is: a) □ approved b) □ disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) <u>5</u> 	5) Notice of Informal F	(PTO-413) Paper No(s) Patent Application (PTO-152)				
S. Patent and Trademark Office						

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DETAILED ACTION

Drawings

1. The drawings filed on September 28, 2001 have been approved.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 4. Claims 1-10 are rejected under 35 U.S.C. § 103 as being unpatentable over

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Kohler ("System Architecture and Techniques for Gesture Recognition in Unconstraint Environments", M.R. J. Kohler, Virtual Systems and Multimedia, IEEE 1997, pages 137-146) in view of Launey et al. (US 5,086,385).

Regarding claims 1 and 9, Kohler discloses a system for controlling home appliances by gesture comprising:

an image receiver for receiving a continuous stream of gesture images of a gesture performed within a field of view of the image receiver (page 137, left column and page 139, figure 4 (a)); a system that receives the video signal corresponding to the continuous stream of gesture images and recognizes gesture based on information contained in the video signal (page 141, section 3, Object Recognition and Tracking); a system for identifying a home appliance operation with the gesture (page 138, left column); an appliance controller coupled to the system for causing home appliance operation to be performed (page 140, Table 1).

Kohler discloses a generic home appliance controlling system without specific details regarding an image processor that receives a video signal.

In the same field of endeavor, however, Launey discloses a home automation system comprising an image processor that receives a video signal corresponding to home appliance control (column 11, lines 35-67 and figure 1, elements 10 and 26).

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to use an image processor as taught by Launey in the system of Kohler because it provides Kohler with a home automation appliance control

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system which is expandable and supports multiple numbers and different types of data communications interfaces.

As to claim 10, claim 10 is a method claim corresponding to apparatus claims 1 and 9 above and recite substantially very similar limitations and therefore is similarly analyzed as apparatus claims 1 and 9 above.

As to claims 2-3, while Kohler is silent about the specific details regarding a voltage generator generating a voltage signal and pulse, Launey discloses a home automation system that generates voltage signal and a pulse (column 9, lines 1-30).

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to use a voltage generator as taught by Launey in the system of Kohler because it provides Kohler with a home automation appliance control system which is expandable and supports multiple numbers and different types of data communications interfaces. Additionally, such appliance controllers are routinely designed to operate using voltage or current pulse signal.

As to claims 4-6, Kohler discloses the system that indicates the home appliance operation being performed and stores the representative gesture (page 139, figure 4(c) and page 140). All other limitations of claims 4-6 are similarly as claims 1-3 above.

As to claim 7, Kohler identifies the home appliance operation by comparing the recognized gesture with each of a predefined set of gestures (page 139, left column).

As to claim 8, while Kohler is silent about a switch coupled to the appliance,

Launey discloses a switch coupled to the appliance adapted to be coupled to the home

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appliance, wherein switch is responsive for causing the home appliance operation to be performed (column 52, lines 18-45).

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to use a switch coupled to the appliance as taught by Launey in the system of Kohler because it provides Kohler with a home automation appliance control system which is expandable and supports multiple numbers and different types of data communications interfaces. Additionally, appliance control switches are routinely used in home automation system for computer, remote or gesture controlled environment.

Other prior art cited

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Shuichi (JP 10031551 A) discloses a human interface system and high -speed moving body position-detecting device (see abstract, page 1).

Hoffberg et al. (US 5,875,108) discloses an ergonomic man-machine interface recognition and control system.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jayanti K. Patel whose telephone number is (703) 308-

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7728. The examiner can normally be reached on Monday-Friday (7:00-4:00), alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bhavesh Mehta can be reached on (703) 308-5246. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9314 for regular communications and (703) 308-5397 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4700.

JKP June 12, 2003

Jayanti K. Patel Primary Examiner